

REMARKS

The above amendments to the above-captioned application along with the following remarks are being submitted as a supplement to the response filed on September 12, 2008 and a telephone conversation with the Examiner on January 26, 2009. The Examiner suggested that Applicants file the response first and then follow up with the Examiner to schedule a telephone interview in two weeks.

In view of the above amendments and the following remarks, the Examiner is respectfully requested to give due reconsideration to this application, to indicate the allowability of the claims, and to pass this case to issue.

Status of the Claims

Claims 1-12 are under consideration in this application. Claims 1-10 are being amended, as set forth above and in the attached marked-up presentation of the claim amendments, in order to more particularly define and distinctly claim Applicants' invention. All the amendments to the claims are supported by the specification. Applicants hereby submit that no new matter is being introduced into the application through the submission of this response.

Allowable Subject Matter

Claims 1-12 will be allowed if rewritten to overcome the pending §112 rejections, as noted below. Since claims 1-12 are being rewritten to overcome the pending §112 rejections, the claims are in condition for allowance.

Formality Rejections

Claim 1 was objected to for informalities. Claims 1-12 were rejected under 35 U.S.C. §112, first paragraph, as not being enabled, as well as under 35 U.S.C. §112, second paragraph, as being indefinite.

Applicants respectfully contend that "a packet" on line 22 of claim 1 is not same as "a received packet" on line 7 of claim 1. "The received packets" are the packets transferred with different internet service providers"; while "a packet" on line 22 of claim 1 and "said packet" on line 2 of claim 4 refer to "a packet including a virtual router configuration flag and identification information of said respective one of said two or more virtual routers ..." according to the present invention.

Regarding the term “**synchronizing**” in the recitation of “synchronizing per virtual router via independently synchronizing (1) said respective routing information of said corresponding internet service provider ---” of claim 1, the synchronization between (1) said respective routing information of said corresponding internet service provider (ISP) stored in the table memory of the active router and (2) said respective routing information of said corresponding internet service provider stored in the table memory of the standby router is disclosed on page 6, 1st paragraph (“*The virtual router VR 1 built in the active router 11 manages only the packets transmitted to or received from ISP 1,.... Similarly, the virtual router VR 2 manages only the packets transmitted to or received from ISP 2,...*”), on page 13, last paragraph (“*The standby routers communicate with the active router to receive or transmit the VRRP packet having information such as VR identifiers and IP addresses, and synchronize the route control information of the standby router with that of the active router.*”), and on page 18, lines 21- 28, as well as the original claim 1 (“*whereby when said routing information managed by a virtual router of 1 of said plurality of virtual routers realized on said active router is synchronized with said routing information to be managed by the corresponding one of the virtual routers realized on said standby router*”).

Further, the effects of the synchronization are disclosed on page 19, lines 1 to 19 of the specification (“*The information of each VR is not mixed with other VR information during the data communication.*”). In the prior art packet transmission system, the routing information of VR1 for managing the routing information of ISP1 and the routing information of VR2 for managing the routing information of ISP2 (of the active router 11) are mixed within the standby router 12 when they are transferred from the active router 11. As a result, the classified information of each ISP is lost (p. 7, 1st line). The invention is design to solve the prior art problem of mixing the routing information managed by realizing the virtual routers VR1, VR2 in the same active router and synchronizing per virtual router/ISP (p. 6, 2nd paragraph). As such, the term “**synchronizing**” in the recitation is fully enabled by the specification.

The virtual router “logically realized and activated” in the active router is supported on page 10, lines 5-8 (“*FIG. 6 shows the situation in which an embodiment of the invention, or a redundancy packet transmission router with a VR function incorporated is actually provided on the network*”). The virtual router “logically realized and not yet activated” in the standby router is supported on page 17, lines 12 -14 (“*When the VR boot order flag rises, the router 12 knows that this packet has been sent from the active router with VR activated, and*

orders its VR to operate") and on page 19, lines 1-4 ("FIGS. 13 and 14 show the routing tables of VR1, VR2 that are generated on the standby router after the virtual router function is started by the VR boot order."). In particular, "an active packet transmission router and a standby packet transmission router each of which includes a function to realize a plurality of virtual routers (original claim 1)", "there is another technology called VR (Virtual Router) that logically builds up a function to serve as a plurality of packet transmission routers on a single packet router (page 3, 2nd para.)" and "FIG 4 shows the situations in which the active packet transmission router has its VR activated but the standby packet transmission router has its VR not activated (p. 5, lines 22-25)". That is, it represents a state where the virtual router function is mounted in the virtual router configured in the standby router so as to be activatable but not yet activated before a failure occurs in the active router. As such, the virtual router "logically realized and activated" in the active router and the virtual router "logically realized and not yet activated" in the standby router are fully enabled by the specification.

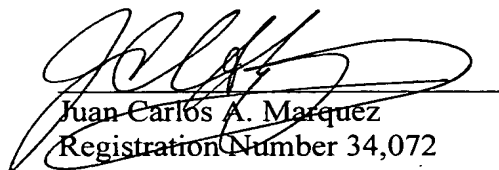
As indicated, the claims are being further amended and further noted with citations of support in the specification as in the following sections as required by the Examiner. Accordingly, the withdrawal of the outstanding informality rejection is in order, and is therefore respectfully solicited.

Conclusion

In view of all the above, clear and distinct differences as discussed exist between the present invention as now claimed and the prior art as a whole, Applicants respectfully contend that the prior art cannot anticipate the present invention or render the present invention obvious. Rather, the present invention as a whole is distinguishable, and thereby allowable over the prior art.

Favorable reconsideration of this application is respectfully solicited. Should there be any outstanding issues requiring discussion that would further the prosecution and allowance of the above-captioned application, the Examiner is invited to contact the Applicants' undersigned representative at the address and telephone number indicated below.

Respectfully submitted,



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